P ENT COOPERATION TREAT

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 23 June 2000 (23.06.00)	in its capacity as elected Office
International application No. PCT/FI99/00941	Applicant's or agent's file reference BOR 12 PCT
International filing date (day/month/year) 12 November 1999 (12.11.99) Applicant	Priority date (day/month/year) 12 November 1998 (12.11.98)
KIVELÄ, Jouni et al	
in a notice effecting later election filed with the Inte	ernational Bureau on:
was not made before the expiration of 19 months from the priority Rule 32.2(b).	y date or, where Rule 32 applies, within the time limit under
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer F. Baechler

Telephone No.: (41-22) 338.83.38

P... ENT COOPERATION TREAT

	From the INTERNATIONAL BUR
PCT NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	SEPPO LAINE OY Itämerenkatu 3 B FIN-00180 Helsinki FINLANDE
13 juin 2001 (13.06.01)	
Applicant's or agent's file reference BOR 12 PCT International application No.	IMPORTANT NOTIFICATION
PCT/FI99/00941	International filing date (day/month/year) 12 novembre 1999 (12.11.99)
1. The following indications appeared on record concerning: X the applicant X the inventor	the agent the common representative State of Nationality State of Residence FI FI Telephone No. Facsimile No. Teleprinter No. the following change has been recorded concerning:
3. Further observations, if necessary:4. A copy of this notification has been sent to:	
X the receiving Office the International Searching Authority the International Preliminary Examining Authority	the designated Offices concerned X the elected Offices concerned other:
34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer J. Leitao delephone No.: (41-22) 338.83.38

UNITED STATES PATENT AND TRADEMARK OFFICE	•	
TRADEMARK OFFICE		
U.S. APPLICATION NO.	United	Commissioner for Patents, Box P States Patent and Trademark Off Washington, D.C. 200
09/831600		ATTY, DOCKET NO.
KIVELA	J	0365-0501P
BIRCH STEWART KOLASCH & BIRCH	INTERNATIONA	AL APPLICATION NO.
PO BOX 747 FALLS CHURCH, VA 22040 0747	PCT/F	199/00941
7.7.22540 0747	I.A. FILING DATE	
	11 MAY 01	PRIORITY DATE
		12 NOV 98 1 0 1/1N 200¶
NOTIFICATION OF ACCEPTANCE OF A TOTAL	DATE MAILED:	13 JUN 2001
NOTIFICATION OF ACCEPTANCE OF APPLICATION AND 37 CFR 1.494 OR 1.495	ON UNDER 35 L	J.S.C. 371
1.45	•	
1. The applicant is hereby advised that the United States Patent and Tradema Designated Office (37 CFR 1.494),	rk Office in its care	nim
Designated Office (37 CFR 1.494), an Elected Office (37 CFR 1.495), has international application has met the requirements of 35 U.S.C. 371 and in Accordance of the Company of the Compa	as determined that the	a should Economic
chammation in the United States Patent and Trademark Office.	CCEPTED for nation	onal patemphility
The United States Application Number assigned to the application is show 11 MAY 2001		70 23 2001
		vant dates are:
	11 MAY 2001	
33 U.S.C. 371(c)(1), (c)(2) and (a)(4) DEGLUDES DATE O	F RECEIPT OF AL 371 REQUIREMEN	Ī.
A Filing Receipt (PTO-103X) will be issued for the present application in due on the filing receipt as the "filing date" is the date of u.s.c. 371 requirements has been received in the office The filing date of the above-identified application is the international filing date (Article 11(3) and 35 II S.C. 262).	THIS DATE TO	AST OF THE 35
The filing date of the above it will the RECEIVED IN THE OFFICE	THIS DATE TO	AST OF THE 35
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Applicant is reminded that any communication to the United States Patent and Trademark Office in the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5).

Shakeel Ahmed Telephone: 703-305-3659





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(11) International Publication Number:

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12 November 1999 (12.11.99)

(30) Priority Data:

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FI 12 November 1998 (12.11.98)

(71) Applicant (for all designated States except US): BOREALIS POLYMERS OY [FI/FI]; P.O. Box 330, FIN-06101 Porvoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KIVELÄ, Jouni [FI/FI]; Sturenkatu 37-41 A 3, FIN-00550 Helsinki (FI). NYFORS, Klaus [FI/FI]; Kullervontie 12, FIN-06150 Porvoo (FI).

(74) Agent: SEPPO LAINE OY; Itämerenkatu 3 B, FIN-00180 Helsinki (FI).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: METHOD AND APPARATUS FOR DISCHARGING POLYMERIZATION REACTORS

(57) Abstract

A method and an apparatus of discharging polymer from a continuously operated gas phase reactor, wherein at least one monomer is polymerized in a bed containing active catalyst formed by catalyst and polymer particles suspended in a fluid, the bed defining a fluidized bed level in said reactor. The invention comprises continuously withdrawing polymer powder from the reactor; and adjusting the discharge rate of the polymer powder so as to maintain a constant bed level during polymerization. By means of the invention the discharge of the polymer can be made truly continuous without any disturbance of the polymerization. The rate of withdrawn polymer can be flexibly adjusted depending on the progress of the polymerization and it can also easily be scaled up if the capacity of the reactor is increased.

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

SEPPO LAINE OY Itāmerenkatu 3b FI-00180 Helsinki FINLANDE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

27.07.2000

Applicant's or agent's file reference

BOR 12 PCT
International application No.

International filing date (day/month/year)

12/11/1999

Priority date (day/month/year)

IMPORTANT NOTIFICATION

12/11/1998

PCT/FI99/00941

Applicant
BOREALIS POLYMERS OY et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

European Patent Office D-80298 Munich

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Tel.+49 89 2399-8091



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	·	f Toponitte of International	
Applicant's or agent's file reference	See Notification of Transmittal of International FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
BOR 12 PCT			
International application No.	International filing date (day/monti	12/11/1998	
PCT/FI99/00941	12/11/1999		
International Patent Classification (IPC) or na C08F2/34	tional classification and IPC		
Applicant			
BOREALIS POLYMERS OY et al.			
and is transmitted to the applicant	according to Article 30.	ed by this International Preliminary Examining Authority sheet.	
2. This REPORT consists of a total o		· · · · · · · · · · · · · · · · · · ·	
l	ed by ANNEXES, i.e. sheets of asis for this report and/or sheets 607 of the Administrative Instruc	the description, claims and/or drawings which have containing rectifications made before this Authority stions under the PCT).	
These annexes consist of a total of	of sheets.		
3. This report contains indications re	lating to the following items:		
∣ ⊠ Basis of the report			
II □ Priority		inventive step and industrial applicability	
		inventive step and industrial applicability	
IV Lack of unity of inven	tion	to novelty, inventive step or industrial applicability;	
citations and explana	itions suporting such statement		
VI □ Certain documents o			
VII Certain defects in the	e international application		
VIII Certain observations	on the international application		
Date of submission of the demand	Date	e of completion of this report	
29/05/2000	27.0	07.2000	
Name and mailing address of the internati preliminary examining authority:	onal Auti	horized officer	
European Patent Office D-80298 Munich		x, R	
Tel. +49 89 2399 - 0 Tx: 523 Fax: +49 89 2399 - 4465	3656 epmu d Tele	ephone No. +49 89 2399 8593	

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/FI99/00941

i.	Basis	of the	report
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1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

i	the re	port since they a	O. NOL CORRAIN AMERICANONO.).
	Desc	ription, pages:	
	1-12		as originally filed
	Clair	ns, No.:	
	1-28		as originally filed
	Drav	vings, sheets:	
	1/2,2	2/2	as originally filed
2.	The	amendments ha	ve resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3	. 🗆	This report has considered to g	been established as if (some of) the amendments had not been made, since they have beer o beyond the disclosure as filed (Rule 70.2(c)):
		ditional obsanyati	ons if necessary:

Additional observations, it necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI99/00941

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-28

No: Claims

Inventive step (IS) Yes: Claims 1-28

No: Claims

Industrial applicability (IA) Yes: Claims 1-28

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

. . : 1 -

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Methods (and the corresponding apparatus) of producing a polymer in a continuously operated gas phase reactor wherein the polymer powder is withdrawn continuously from the reactor at such a rate that the fluidized bed is maintained at a constant level are well known in the art (see col. 19 lines 10-13 of US-A- 5 834 571 or page 17 lines 26-29 of EP-A-0 024 933).

However, these documents as well as EP-A-0 870 539 do not disclose or suggest the entirety of features of present independant claims 1 and 26. In particular, these documents are silent as to a withdrawal of particle agglomerates from the reactor and a separate recovery thereof as well as to the corresponding apparatus features (collecting vessel with a screen for collecting the lumps and a separate discharge nozzle for the lumps) necessary for these additional method features.

This novel method and the corresponding apparatus eliminates several disadvantages associated with conventional technology (cf. page 2 line 30 to page 3 line 14). In addition, the following advantages of the present method/apparatus are noteworthy:

- the discharge of the polymer can be made truly continuous without any disturbance of the polymerisation,
- the rate of withdrawn polymer can be flexibly adjusted,
- the polymerisation can easily be scaled up, and
- considerable increase of the throughput (see Example and Comparative Example).

For these reasons, the subject-matter of present claims 1-28 is both novel (Art. 33 (2) PCT) and inventive (Art. 33 (3) PCT).



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
BOR 12 PCT	ACTION	(Earliest) Priority Date (day/month/year)
International application No.	International filing date (day/month/year)	
PCT/FI 99/00941	12/11/1999	12/11/1998
Applicant		
BOREALIS POLYMERS OY et a	1.	
according to Article 18. A copy is being tra	_	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of3sheets. a copy of each prior art document cited in this	report.
Basis of the report		
. With regard to the language the	international search was carried out on the bar less otherwise indicated under this item.	sis of the international application in the
the international search v	vas carried out on the basis of a translation of t	
b. With regard to any nucleotide at was carried out on the basis of the	nd/or amino acid sequence disclosed in the in e sequence listing :	nternational application, the international search
contained in the internati	onal application in written form.	
filed together with the inte	ernational application in computer readable for	m.
	o this Authority in written form.	
furnished subsequently t	o this Authority in computer readble form.	
international application	ibsequently furnished written sequence listing o as filed has been furnished.	
the statement that the infurnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were fo	und unsearchable (See Box I).	
3. Unity of invention is la		
4. With regard to the title ,		
	submitted by the applicant.	
the text has been estable	ished by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as	submitted by the applicant.	rity as it appears in Box III. The applicant may.
the text has been estab- within one month from t	lished, according to Rule 38.2(b), by this Autho he date of mailing of this international search re	ority as it appears in Box III. The applicant may, apport, submit comments to this Authority.
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	[V]
as suggested by the ap		X None of the figures.
	ailed to suggest a figure.	
because this figure bett	er characterizes the invention.	

International Application No 99/00941

A. CLASSIFICATION OF SUBJECT MATTER B01J8/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Minimum documentation searched (classification system followed by classification symbols) I PC $\,\,7\,\,\,\,$ C08 F $\,\,$ B01 J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

NTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EP 0 870 539 A (MITSUI CHEMICALS INC) 14 October 1998 (1998-10-14) column 3. line 34 - line 38	1-30
US 5 834 571 A (SCAROLA LEONARD SEBASTIAN ET AL) 10 November 1998 (1998-11-10)	1-4,14, 15,28-30
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	EP 0 870 539 A (MITSUI CHEMICALS INC) 14 October 1998 (1998-10-14) column 3, line 34 - line 38 column 8, line 19 - line 52 US 5 834 571 A (SCAROLA LEONARD SEBASTIAN ET AL) 10 November 1998 (1998-11-10) column 4, line 15 - line 16 column 19, line 10 - line 13; claims EP 0 024 933 A (MITSUI PETROCHEMICAL IND) 11 March 1981 (1981-03-11) page 17, line 26 - line 28 EP 0 245 043 A (BP CHEM INT LTD) 11 November 1987 (1987-11-11)

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.	
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 	
Date of the actual completion of the international search 2 March 2000	Date of mailing of the international search report 3 1. 03. 2000	
Name and mailing address of the ISA	Authorized officer	
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Helena Danielsson	

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International Application No
PCT 99/00941

.(Continua	tion) DOCUMENTS CONSIDERED TO ERELEVANT	Relevant to claim No.
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	neistail to outsilito.
	US 5 326 835 A (AHVENAINEN ANTERO ET AL) 5 July 1994 (1994-07-05) column 6, line 5 - line 8	1-30

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Information patent family members

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International Application No
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Publication date

Patent document cited in search report	Publication date	Patent family member(s)	Publication date .
EP 0870539 A	14-10-1998	JP 10279611 A CA 2234510 A CN 1203120 A	20-10-1998 10-10-1998 30-12-1998
US 5834571 A	10-11-1998	US 5453471 A AT 184886 T AU 691957 B AU 3211395 A AU 687604 B AU 3211495 A AU 692586 B AU 3237395 A BR 9508515 A BR 9508517 A CA 2155236 A,C CA 2196664 A CN 1133298 A CN 1158624 A CN 1171793 A CZ 9700296 A CZ 9700297 A CZ 9700297 A CZ 9700320 A DE 69512421 D EP 0697421 A EP 0773963 A EP 0773963 A EP 0773965 A EP 0856530 A FI 970457 A HU 78022 A HU 78018 A HU 76682 A JP 8100009 A JP 10503799 T JP 10503799 T JP 10503799 T JP 10503799 T NO 970464 A PL 318524 A PL 318526 A PL 318527 A SK 14897 A WO 9604322 A WO 9604323 A WO 9604321 A ZA 9506456 A	26-09-1995 15-10-1999 28-05-1998 04-03-1996 26-02-1998 04-03-1996 11-06-1997 21-10-1997 21-10-1997 03-02-1996 15-02-1996 16-10-1997 28-01-1998 11-06-1997 11-06-1997 11-06-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-05-1997 21-04-1998 05-08-1998 05-08-1999 28-05-1999 28-10-1997 16-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998 07-04-1998
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International Application No
PC 99/00941

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US 5326835 A	05-07-1994	FI 906428 A AT 130316 T DE 69114696 D DE 69114696 T DK 517868 T EP 0517868 A ES 2079844 T WO 9212182 A GR 3018786 T JP 2529923 B JP 5504786 T NO 179286 B	29-06-1992 15-12-1995 21-12-1995 11-04-1996 18-03-1996 16-12-1992 16-01-1996 23-07-1992 30-04-1996 04-09-1996 22-07-1993 03-06-1996

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)- 1	For receiving Office use only International Application No.	
)-2	International Filing Date	
-3	Name of receiving Office and "PCT	
	International Application*	
4	Form - PCT/RO/101 PCT Request	
)-4-1	Prepared using	PCT-EASY Version 2.90
		(updated 15.10.1999)
)-5	Petition	
	The undersigned requests that the present international application be	
	processed according to the Patent	
0-6	Cooperation Treaty Receiving Office (specified by the	National Board of Patents and
J - 0	applicant)	Registration (Finland) (RO/FI)
~ -	Applicant's or agent's file reference	BOR 12 PCT
0-7		METHOD AND APPARATUS FOR DISCHARGING
ı	Title of invention	POLYMERIZATION REACTORS
		POLIMERIZATION REACTORS
 -1	Applicant This person is:	applicant only
II-2	Applicant for	all designated States except US
11-4	Name	BOREALIS POLYMERS OY
11-5	Address:	P.O. Box 330
11-5	Address.	FIN-06101 Porvoo
		Finland
	Otata of actionality	FI
II-6 	State of nationality	
11-7	State of residence	FI 250 10 5413416
11-8	Telephone No.	358-19-5413416
11-9	Facsimile No.	358-19-5417798
10-1 111-1-1	Applicant and/or inventor This person is:	applicant and inventor
	, i	US only
III-1-2	''	KIVELÄ, Jouni
III-1-4		Sturenkatu 37-41 A 3
III-1-5	Address:	
		FIN-00550 Helsinki
		Finland
III-1-6		FI
111-1-7	State of residence	FI

PCT REQUEST

	Original (ioi 302			
III-2 III-2-1	Applicant and/or inventor This person is:	applicant and inventor		
III-2-1	1	US only		
111-2-4		NYFORS, Klaus		
III-2-5	1144	Kullervontie 12		
111-2-5	/ 100/ 000	FIN-06150 Porvoo		
		Finland		
III-2 - 6	State of nationality	FI		
111-2-7	State of residence	FI		
IV-1	Agent or common representative; or			
14-1	address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent		
IV-1-1	Name	SEPPO LAINE OY		
IV-1-2	Address:	Itämerenkatu 3 B		
		FIN-00180 Helsinki		
		Finland		
IV-1-3	Telephone No.	+358-9-68 59 560		
IV-1-4	Facsimile No.	+358-9-68 595 610		
IV-1-5	e-mail	seppo.laine@selpat.fi		
V	Designation of States	AP: GH GM KE LS MW SD SL SZ UG ZW and		
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	any other State which is a Contracting State of the Harare Protocol and of the PCT (except TZ) EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT		
V-2	National Patent (other kinds of protection or treatment, any, are specified between parenthese after the designation(s) concerned)	AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW		

PCT REQUEST

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-5	Precautionary Designation Statement		
1	In addition to the designations made		
	under items V-1, V-2 and V-3, the		
	applicant also makes under Rule 4.9(b)		
	all designations which would be		
	permitted under the PCT except any		
	designation(s) of the State(s) indicated		
	under item V-6 below. The applicant		
	declares that those additional		
	designations are subject to confirmation		
	and that any designation which is not		
	confirmed before the expiration of 15		
	months from the priority date is to be		
	regarded as withdrawn by the applicant		
	at the expiration of that time limit.		
/-6	Exclusion(s) from precautionary	NONE	
	designations		
/1-1	Priority claim of earlier national		
	application		•
/I-1-1	Filing date	12 November 1998 (12	.11.1998)
	1 -		
VI-1-2	Number	982456	
VI-1-3	Country	FI	
	Priority document request		
VI-2		l .	
VI-2	The receiving Office is requested to	vi-1	
VI-2	The receiving Office is requested to	VI-1	
VI-2	The receiving Office is requested to prepare and transmit to the International	VI-1	
VI-2	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier	VI-1	
VI-2	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as		
	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):		ce (EPO) (ISA/EP)
VI-2 VII-1	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority	European Patent Offi	
VII-1	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen		ce (EPO) (ISA/EP) electronic file(s) attached
VII-1 VIII	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list	European Patent Offi	
VII-1	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen	European Patent Offi number of sheets	electronic file(s) attached
VII-1 VIII	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list	European Patent Offi	electronic file(s) attached
VII-1 VIII VIII-1	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request	European Patent Offi number of sheets	electronic file(s) attached
VII-1 VIII VIII-1 VIII-2	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description	European Patent Offi number of sheets 4 12	electronic file(s) attached bor12pct.txt
VIII-1 VIII-1 VIII-2 VIII-3	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims	European Patent Offi number of sheets 4 12 4	electronic file(s) attached
VII-1 VIII-1 VIII-2 VIII-3 VIII-4	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract	European Patent Offi number of sheets 4 12 4	electronic file(s) attached bor12pct.txt
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL	European Patent Offi number of sheets 4 12 4 1	electronic file(s) attached bor12pct.txt
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items	European Patent Offi number of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet	European Patent Offi number of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney	European Patent Offi number of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached -
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7 VIII-8 VIII-9	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette	European Patent Offi number of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7 VIII-8	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette Figure of the drawings which should accompany the abstract	European Patent Offinumber of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached -
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7 VIII-8 VIII-9	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette Figure of the drawings which should accompany the abstract Language of filing of the international	European Patent Offinumber of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached -
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7 VIII-8 VIII-9 VIII-16	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette Figure of the drawings which should accompany the abstract	European Patent Offinumber of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached -
VII-1 VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-7 VIII-8 VIII-16 VIII-18 VIII-19	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette Figure of the drawings which should accompany the abstract Language of filing of the internationa application Signature of applicant or agent	European Patent Offi number of sheets 4 12 4 1 2 23 paper document(s) attached - English	electronic file(s) attached bor12pct.txt - electronic file(s) attached
VII-1 VIII-1 VIII-2 VIII-3 VIII-5 VIII-7 VIII-8 VIII-9 VIII-16 VIII-19	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): International Searching Authority Chosen Check list Request Description Claims Abstract Drawings TOTAL Accompanying items Fee calculation sheet Separate signed power of attorney PCT-EASY diskette Figure of the drawings which should accompany the abstract Language of filing of the internationa application Signature of applicant or agent	European Patent Offinumber of sheets 4 12 4 1 2 23 paper document(s) attached	electronic file(s) attached bor12pct.txt - electronic file(s) attached -

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10-1	Date of actual receipt of the	
	purported international application	

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10-2	Drawings:	
10-2-1	Received	•
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by	
	the International Bureau	